

**City of Canton**

**11<sup>th</sup> Street Realignment  
and  
11<sup>th</sup> Street/ Market Avenue  
Streetscape Project**



**Conceptual Engineering Study for 11<sup>th</sup> Street between  
Market Street and US-30 ramps and Market Avenue  
between 11<sup>th</sup> Street and the Norfolk Southern Railroad  
Tracks.**

**February 2010**

**09493**



**CT Consultants**  
*engineers | architects | planners*

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## INTRODUCTION

The City of Canton is located in northeastern Ohio and is home to such well-known national landmarks as the NFL Pro Football Hall of Fame, the William McKinley Presidential Library/National Monument, and the National First Ladies Library and Research Center. As with much of this area, the City has been shaped by rise and fall of the American automobile industry. Recently the City of Canton announced a \$178 million project by Cormony Development to renovate the historic Hercules manufacturing facility on 11th Street near downtown Canton. The project will include an exhibition center, some residential space, office and retail. This area is already home to the corporate offices of Timken Company a top employer for the City.

The 11<sup>th</sup> Street corridor adjacent to the Hercules facility lies between two designated streetscape corridors of Cherry and Market Avenues. A Remedial Action Plan (RAP) was prepared for the Hercules site as part of a downtown program to reclaim brown field areas and develop new infill and building rehabilitation opportunities. This reclaimed property will allow 11<sup>th</sup> Street to be realigned south of its current location.

## ANALYSIS

### TRAFFIC SIGNALS

The City of Canton is in the process of implementing a video detection system for their signals. It currently uses a siren activated Emergency Vehicle Preemption (EVP) system by Sonem. Both of these systems would be added to the signal upgrades at Cherry Avenue and at Highway 30 ramp intersections with 11<sup>th</sup> Street. Signals at the intersection of 11<sup>th</sup> Street with Market Avenue are currently slated to be upgraded under a separate roadway improvement project. The Route 30, Cherry Avenue and Market Avenue signal systems would all be expected to be interconnected with a hardwire connection as part of improvements on 11<sup>th</sup> Street.



Existing Cherry Avenue and 11<sup>th</sup> Street intersection looking west. Traffic strain poles and light poles have the standard painted aluminum surface.



No crosswalks are provided from the south side of 11<sup>th</sup> Street to the north side at either the Cherry Avenue intersection shown above or at the US 30 ramps shown here.

### ALIGNMENT

The 11<sup>th</sup> Street corridor between Market and Highway 30 is classified as a Collector. The 2008 Regional Planning information indicates that the Average Daily Traffic (ADT) for this area is 5,400. Posted speed limit is 35 miles per hour. No plans for the Hercules property redevelopment are currently available to indicate the trip generation or proposed ingress/egress locations. An entrance into the Hercules property that would align with the proposed Housel Avenue alignment would be encouraged. No other current turning movement information is available for this area.

Current lane configuration from the 30 ramp to Cherry Avenue is five (5) lanes – two (2) travel

lanes in each direction and a center left turn lane at each intersection. The lane configuration from Cherry Avenue to Market starts as five (5) lanes at the Cherry Avenue intersection and then transitions from the five lanes to 3 lanes at about 400 feet from the center of the intersection. As Market Avenue is approached, the center of the three lanes becomes a left turn lane and a "Y" in the right most lane allows for right turns onto Market. Only one road intersection occurs along this approximate 1,600 foot length of road. This road is Housel Avenue which extends only in the southern direction from 11<sup>th</sup> Street about 350 feet west of the intersection of 11<sup>th</sup> Street and Market.

The City intends to realign 11<sup>th</sup> Street to the south on property owned by both the City and by White Motors Development, LLC. This realignment would serve to increase the amount of contiguous development property at the Hercules facility site.

### PAVEMENT CONDITION

Pavement along 11<sup>th</sup> Street S.E. which will not be disturbed by the realignment is in need of replacement. A mill and fill of this area should be expected. Pavement on Market Avenue will not be improved in this project.

### DRAINAGE

This area is relatively level. Surface drainage is to a stream located south of US 30. This stream becomes part of the Nimishillen Creek watershed. It appears that US 30 had inhibited some of the natural drainage of the area and may have caused ponding of water on the White Motors property south of the current 11<sup>th</sup> Street location. A wetlands walk over is suggested prior to design and construction of any road re-alignment. Other run-off on both Market Avenue and 11<sup>th</sup> Street appears to be adequately handled by the existing storm sewer system.

### UTILITIES

- **Sanitary Sewer.** The sanitary sewer system is owned by the City of Canton. Sanitary lines for the project area are not continuous along 11<sup>th</sup> Street. In the area that is to be re-aligned, a 12" line runs from Market Avenue along the old 11<sup>th</sup> Street R.O.W. east to a 20" line located on the west of Cherry Avenue. Relocation of the 12" line into the new 11<sup>th</sup> Street R.O.W. could be done during the realignment thereby eliminating the location of this line over private property. On Market Avenue, the sanitary line from the old 11<sup>th</sup> Street location south to the current 11<sup>th</sup> Street location is an 8" line. North of that location and under the Norfolk Southern Railroad tracks is a 12" sanitary line.
- **Water.** Water is supplied by Canton Water Department. Along 11<sup>th</sup> Street, the waterline from the east to a point just west of Cherry Avenue is a single 12" line. At a point near the vacated Rex Avenue S.E. both a 12" and 6" line run along the old 11<sup>th</sup> Street right-of-way to Market Avenue. A 4" line extends south from this along Housel Avenue. Hydrants that may be affected by a road re-alignment are located at the corner of Housel and the existing 11<sup>th</sup> Street intersection and east of the weigh station. A 6" line runs the length of Market Avenue adjacent to the Hercules site.
- **Storm Sewer.** Storm sewers are also located within the old 11<sup>th</sup> Street R.O.W.. They are

extended from this location and from Housel Avenue into the current 11<sup>th</sup> Street alignment. The sewer lines and catch basins will need to be relocated with the road through this section of the project. An 18" storm sewer line extends south from the Norfolk Southern Railroad tracks south through the 11<sup>th</sup> Street intersection.

- **Electric.** There are overhead 3 phase primary electric lines along the current 11<sup>th</sup> Street SE location. The lines extend from the intersection of Market Avenue to Cherry Avenue SE. In this same area, there are overhead street light wire and eight (8) streetlights. Neither overhead nor underground service is located along 11<sup>th</sup> Street from Cherry Avenue east to the US 30 ramps. There are, however, 6 total overhead lights along this area with 3 lights on each side of the street. Electric service is provided by American Electric Power. On Market Avenue, there are overhead streetlights on both sides of the street totaling five. There are also dusk to dawn lighting serving the businesses along the street. There is also an overhead phase 1 service line on the east side of the street that ends about 350' south of the Norfolk Southern Railroad track.
- **Gas.** The gas provider in the area is Dominion East Ohio Gas. A pressure distribution line runs from Housel Avenue north to the old 11<sup>th</sup> Street right-of-way and then along the right-of-way east to current 11<sup>th</sup> Street alignment, past Cherry Avenue and other points east. It lies on the south side of 11<sup>th</sup> Street where it is in the right-of-way. There is a low pressure distribution line on both sides of Market Avenue.
- **Communication:** Both Time-Warner Cable and AT&T have some aerial lines along the old 11<sup>th</sup> Street right-of-way. There are also buried lines located east of Cherry Avenue.



A view along 11<sup>th</sup> Street looking east shows the overhead 3 phase electric, overhead street light and overhead communication lines in this area. Several of the lines also extend south down Housel Avenue to the right in this photograph.



Looking west along 11<sup>th</sup> Street the overhead lines and poles can be seen following the old 11<sup>th</sup> Street right-of-way. This right-of-way appears to be abandoned according to the Stark County property data though utility plat maps do not list the right-of-way as vacated.

Other buried utilities such as gas, sanitary sewer, storm sewer and water are also along this old right-of way.



This view into the Hercules site from Market Avenue is along the old 11<sup>th</sup> Street right-of-way. Multiple utilities are still located in this right-of-way.



On the west side of the street, Market Avenue is fronted at irregular intervals with older residences and businesses and narrow side-streets. Streetscape treatments will help to unify the disorderly appearance of the street.

## CONCEPTUAL DESIGN

The 11<sup>th</sup> Street roadway re-alignment was set based on discussions and sketches from the City which indicated a straight route from just outside the intersection of Market Avenue to approximately 400 feet west of Cherry Avenue. The tangent length for the new design is 960 feet. A curve was introduced at the east end to bring the new alignment back onto the existing centerline of 11th Street. The curve has a radius of 347.25 feet based upon a design speed of 35 MPH and a maximum degree of curvature of 16° 30'. Existing Housel Avenue is tied to the new 11<sup>th</sup> Street alignment at a right angle. Radius at this intersection is 35 feet to allow for truck traffic.

The typical section for the realigned road allows for a sixty-five (65) foot wide right-of-way. This provides a 14 foot travel lane in each direction with a 12' wide center turn lane. On the north side of the road, there is the City of Canton standard streetscape profile which in this instance spans 15' in width. The first four feet from the back of the curb are constructed of brick pavers on a concrete base. The remainder of the pavement section is 6" thick concrete walk that will also provide multi-purpose access. The south side of the street has an 8' wide pavement profile that includes the same 4 feet of brick on concrete pavers from the back of the curb. The remainder of the pavement is again concrete. There is also an allowance for one foot on each side of the right-of-way. Additional utility easements would need to be purchased by any utilities which wish to relocate their service along the new right-of-way. The new alignment transitions from a 65' right-of-way width to a 60' wide right-of-way at Market Avenue and to a 90' wide right-of-way at the Cherry Avenue intersection.

The remaining elements that are found in the City of Canton typical streetscape corridor are the street trees and the ornamental light poles. Both of these elements are located three (3) feet from the front of the curb. Light poles are located at a typical 100 foot spacing. Trees are a minimum of 25 feet from any light pole. This streetscape treatment continues along both sides of 11<sup>th</sup> Street from Market Avenue to Cherry Avenue. At the point east of Cherry Avenue to the intersection with the US 30 ramps, the streetscape treatment is found only on the north side of the road. Crosswalks and pedestrian signals will be provided at the intersections of 11<sup>th</sup> Street and Cherry Avenue and the US 30 ramps. The crosswalks are delineated with standard pavement markings and are not paved with the vehicular brick over concrete found in some other Canton streetscapes. A 5' wide concrete sidewalk just east of the ramps would be extended to facilitate the crossing at the ramp location.

Along with the addition of the pedestrian signals, there would also be an upgrade to the signal system at the Cherry Avenue and US 30 ramp locations. The existing poles and mast arms would be upgraded to incorporate ornamental poles and mast arms. Ornamental luminaires would replace standard cobra head lights on these poles. The signals would incorporate a video detection system and these two intersections would be interconnected with the intersection at Market Avenue. The City standard siren activated Emergency Vehicle Preemption (EVP) system would also be included in the upgrade.



The realignment of the road does not take into consideration the addition of new ingress/egress points from the Hercules property. Coordination with any final development plans will be required depending on the timeline of each of the projects. The realignment of 11<sup>th</sup> will result in the removal of the weigh station. It may also require the acquisition of land for the new right-of-way. Based on conversations with the City of Canton, it is assumed that all environmental clearances have been obtained that would allow for this and other planned development to move forward unhindered.

The road realignment will require the relocation of some of the utilities. These include the overhead poles and lines for telephone, cable and electric. The preliminary design and costs do not provide for the burying of these overhead lines. Other utilities that will require adjustments will be the storm water and water lines so that new inlet basins and hydrants may be serviced by the system. A comprehensive look at relocation of all utilities out of the old 11<sup>th</sup> Street right-of-way should be made before proceeding with this project. Those wholesale relocations have not been considered in the current design and costs.

The Market Avenue streetscape treatment will mimic the treatment found along 11<sup>th</sup> Street. On the east side of the street the first four feet from the back of the curb are constructed of brick pavers on a concrete base. The remainder of the pavement section is 6" thick concrete walk that will also provide a continuation of the multi-purpose access found on 11<sup>th</sup> Street. The west side of the street has an 8' wide pavement profile that includes the same 4 feet of brick on concrete pavers from the back of the curb. The remainder of the pavement is again concrete. As is typical for the City of Canton, the ornamental streetlights and the street trees are located three (3) feet from the front of the curb. Light poles are located at typical 100 foot spacing. Trees are a minimum of 25 feet from any light pole. The multiple side streets found along the west side of Market Avenue limits the location of the streetlights and reduces the number of trees that can be placed along this side. The current Market Avenue right-of-way is sixty (60) feet in width. Depending on the actual pavement width in this area, the streetscape treatment will probably require the purchase of an additional five (5) feet of right-of-way. A concept for the streetscape layout is provided in the attachments.

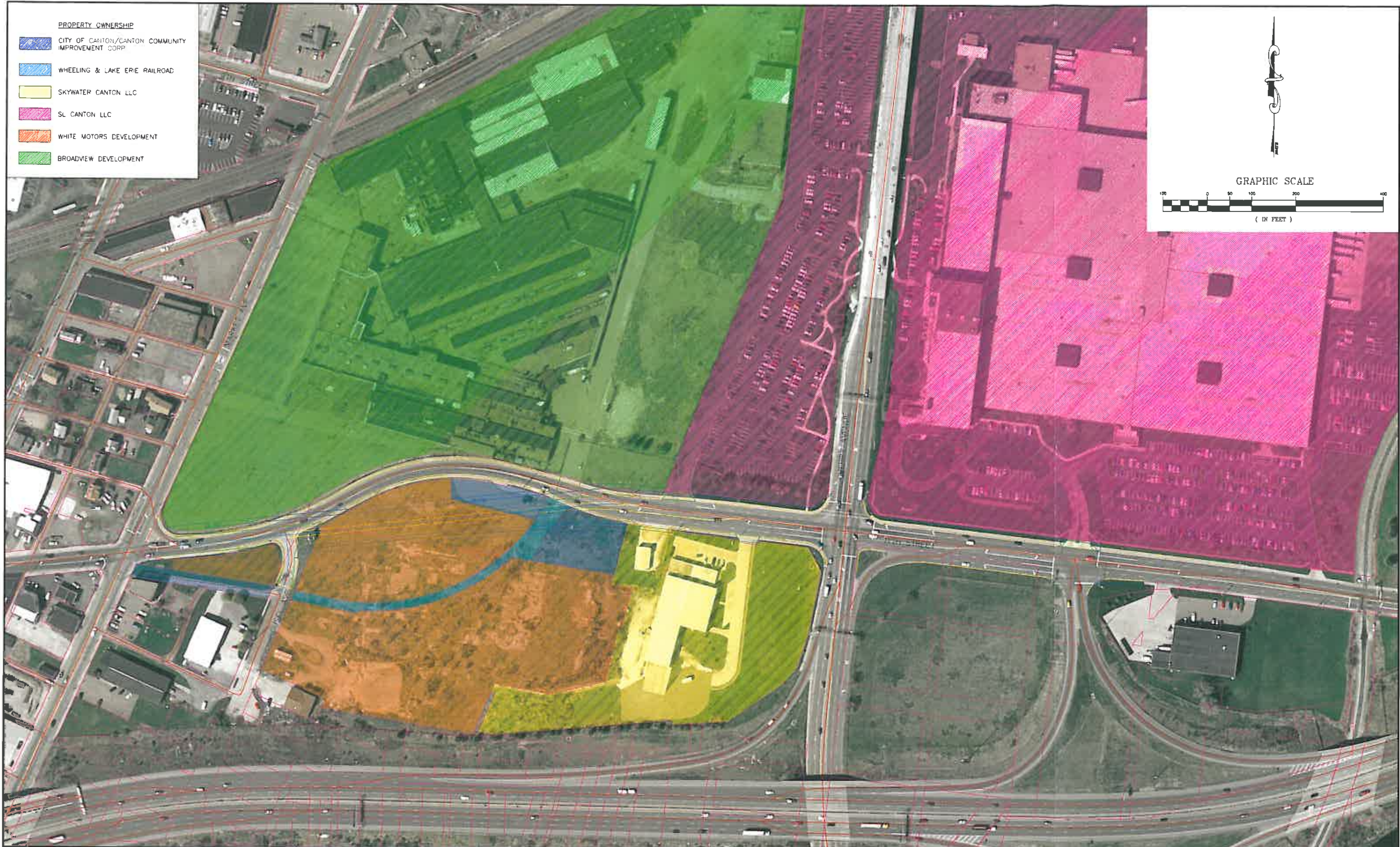
A Preliminary Opinion of Probable Construction Cost (OPCC) was developed based on the conceptual road alignment. The OPCC was based on unit price method and similar projects constructed with the local region. The projected construction cost of this project is approximately \$3,816,000. This includes an estimated \$109,000 for right-of-way acquisition. Additional costs for design, administration and inspection have not been included.



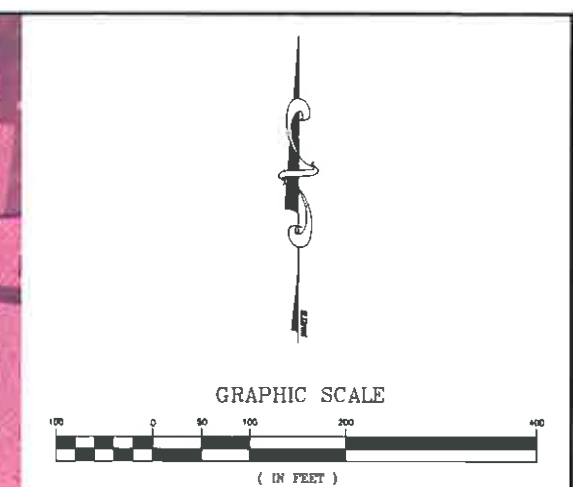
**ATTACHMENT A**

**PROPERTY OWNERSHIP**





- PROPERTY OWNERSHIP
- CITY OF CANTON/CANTON COMMUNITY IMPROVEMENT CORP
  - WHEELING & LAKE ERIE RAILROAD
  - SKYWATER CANTON LLC
  - SL CANTON LLC
  - WHITE MOTORS DEVELOPMENT
  - BROADVIEW DEVELOPMENT



6480 Rockside Woods Blvd., South Independence, Ohio 44131  
216.524.5335 www.ctconsultants.com

11th STREET REALIGNMENT AND  
11th STREET/MARKET AVENUE  
STREETSCAPE PROJECT  
CANTON, OHIO

12/29/09

DRAWN BY: WJM  
CHECKED BY: -  
APPROVED BY: -  
T.B. No. - PG. -

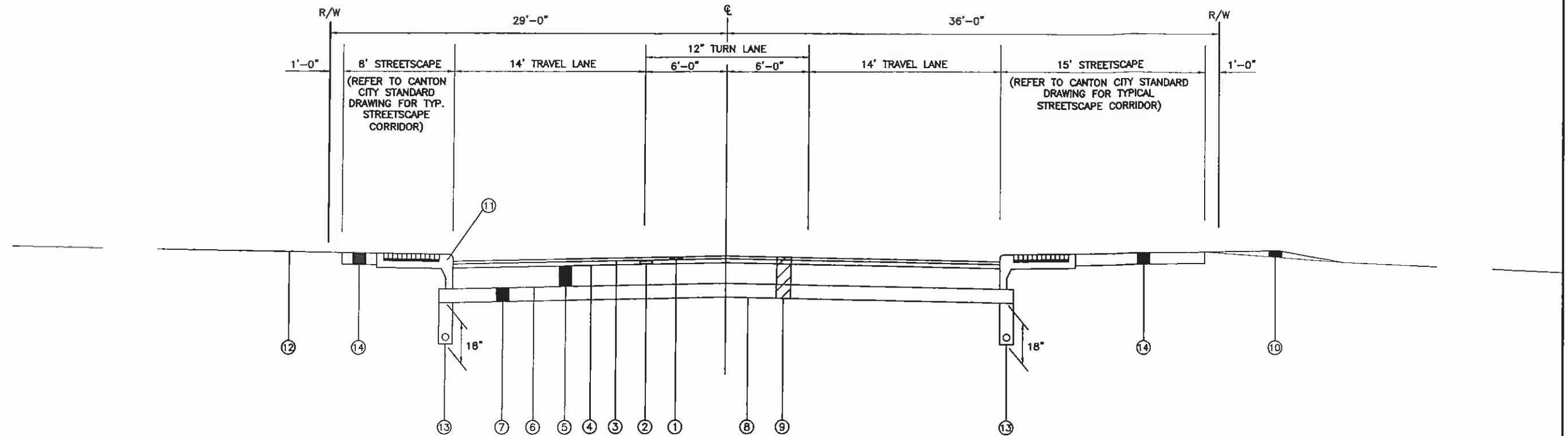
PROPERTY OWNERSHIP

SCALE	
HCM	1" = 100'
VERT	
CONTRACT NO.	
09493	
SHEET NO.	OF
1	1



## ATTACHMENT B

### TYPICAL SECTION REALIGNED 11<sup>TH</sup> STREET



TYPICAL SECTION - REALIGNED 11TH STREET

- ① ITEM 448 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22M, AS PER PLAN
- ② ITEM 448 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22
- ③ ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (0.05 GAL/S.Y.)
- ④ ITEM 407 - TACK COAT (0.10 GAL/S.Y.)
- ⑤ ITEM 301 - 9" ASPHALT CONCRETE BASE, PG 64-22
- ⑥ ITEM 408 - PRIME COAT (0.40 GAL/S.Y.)
- ⑦ ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN
- ⑧ ITEM 204 - SUBGRADE COMPACTION
- ⑨ ITEM 203 - EXCAVATION
- ⑩ ITEM 203 - EMBANKMENT
- ⑪ ITEM 609 - CURB, TYPE 6
- ⑫ ITEM 659 - SEEDING & MULCHING
- ⑬ ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN
- ⑭ ITEM 608 - 5" CONCRETE WALK



**CT Consultants**  
engineers | architects | planners

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REV. NO.	DESCRIPTION	DATE	BY	CHKD.

**11th STREET REALIGNMENT AND  
11th STREET/MARKET AVENUE  
STREETSCAPE PROJECT  
CANTON, OHIO**

DATE: 12/29/09  
DRAWN BY: MJM  
CHECKED BY:   
APPROVED BY:   
F.B. No. PG.

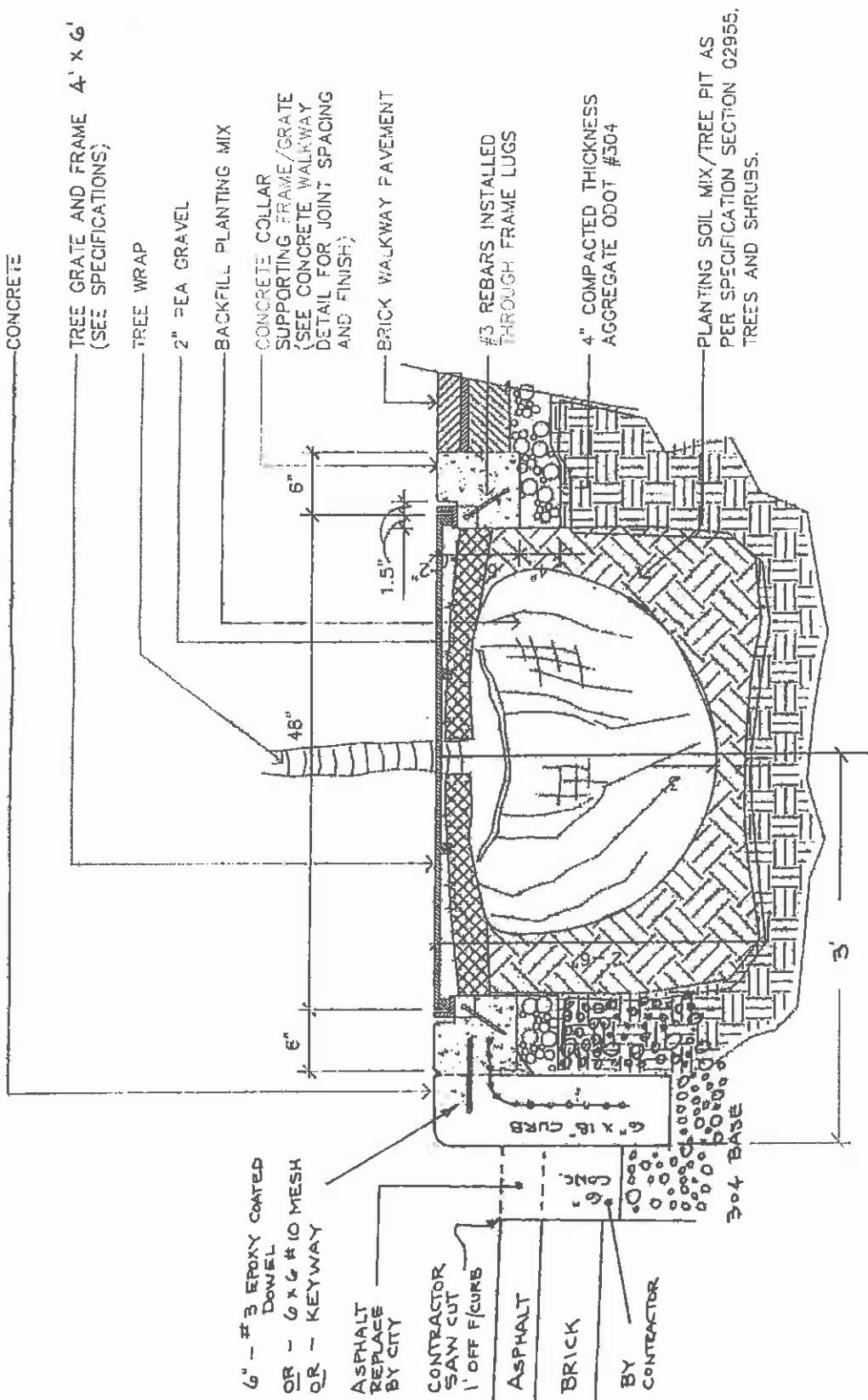
**TYPICAL SECTION  
REALIGNED 11th STREET**


SCALE	
HOR.	1" = 40'
VERT.	
CONTRACT No.	
09493	
SHEET NO.	OF
1	1

ATTACHMENT C

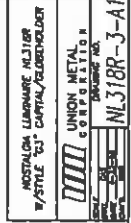
CITY OF CANTON  
STANDARD DETAIL  
STREETSCAPE ENHANCEMENT

CONTINUE TRANSVERSE WALK CONTROL JOINTS  
BY SAWCUTTING THROUGH BRICK CONC. BASE.



		OFFICE OF THE CITY CIVIL ENGINEER CANTON, OHIO G. MICHAEL COUTTS, P.E., CITY CIVIL ENGINEER 2436 50th STREET NE 44706 (330)495-3381	
STANDARD DRAWING  STREETSCAPE ENHANCEMENT  TREE FRAME AND GRATE		REVISIONS	
		DESCRIPTION	DATE BY
		DRAWN BY:	DATE:
		APP'D BY:	H. SCALE:
		FIELD BK:	V. SCALE:
		DWG#	SHEET OF





**NOTE:**  
GLOBEHOLDER & FINAL FINISH PAINTED  
PER SALES ORDER

SEE DWG. NL318R-3-A2 FOR DESIGN NO.5  
AND SPECIFICATION OF ELECTRICAL DATA

**ATTACHMENT D**

**ENGINEER'S PRELIMINARY OPINION OF PROBABLE  
CONSTRUCTION COST**

**ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION  
COST**

**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**

**JANUARY, 2010**

<u>ITEM</u>	<u>TOTAL COST</u>
Roadway	\$1,043,000.00
Erosion Control	\$25,000.00
Drainage	\$219,000.00
Pavement	\$466,000.00
Sanitary	\$6,000.00
Lighting	\$401,000.00
Water Works	\$106,000.00
Traffic Control	\$356,000.00
Maintenance of Traffic	\$14,000.00
Streetscape	\$116,000.00
Miscellaneous	\$461,000.00
<b>TOTAL PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST</b>	<b>\$3,213,000.00</b>

**ROADWAY CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit		Unit Cost	Item Total
ROADWAY						
201	11000	CLEARING AND GRUBBING	1.00	LUMP	\$6,000.00	\$6,000.00
202	23000	PAVEMENT REMOVED	186	S.Y.	\$10.00	\$1,860.00
202	23900	PAVEMENT REMOVED, ASPHALT	44,610	S.Y.	\$10.45	\$466,174.50
202	30000	WALK REMOVED	23,750	S.F.	\$1.50	\$35,625.00
202	32000	CURB REMOVED	4,085	FT.	\$5.00	\$20,425.00
202	35100	PIPE REMOVED, 24" AND UNDER	555	FT.	\$10.00	\$5,550.00
202	-	WATERLINE REMOVED, AS PER PLAN	900	FT.	\$20.00	\$18,000.00
202	58000	MANHOLE REMOVED	3	EA.	\$600.00	\$1,800.00
202	58100	CATCH BASIN REMOVED	8	EA.	\$275.00	\$2,200.00
202	-	REMOVAL, MISC: PYLON SIGN	1	EA.	\$800.00	\$800.00
202	-	REMOVAL MISC: EXISTING SCALE BUILDING	1	EA.	\$2,000.00	\$2,000.00
252	1500	FULL DEPTH PAVEMENT SAWING	1,725	FT.	\$3.00	\$5,175.00
254	-	PAVEMENT PLANING , ASPHALT CONCRETE, AS PER PLAN	9,230	S.Y.	\$2.00	\$18,460.00
203	12000	EXCAVATION, AS PER PLAN	3,800	C.Y.	\$10.00	\$38,000.00
203	20000	EMBANKMENT	400	C.Y.	\$10.00	\$4,000.00
204	10001	EXCAVATION OF SUBGRADE	1,300	C.Y.	\$10.00	\$13,000.00
204	10010	SUBGRADE COMPACTION	5,896	S.Y.	\$1.00	\$5,896.00
204	35110	GRANULAR MATERIAL, TYPE B	1,300	C.Y.	\$35.00	\$45,500.00
204	50000	GEOTEXTILE FABRIC, TYPE D, 712.09	5,550	S.Y.	\$1.50	\$8,325.00
604	38500	MONUMENT ASSEMBLY	4	EA.	\$650.00	\$2,600.00
608	12001	5" CONCRETE WALK, AS PER PLAN	23,900	S.F.	\$4.50	\$107,550.00
608	52011	CURB RAMP, AS PER PLAN	10	EA.	\$500.00	\$5,000.00
SPEC.	60898200	WALKWAY, MISC.: 21/4" BRICK WALKWAY PAVERS	19,000	S.F.	\$12.00	\$228,000.00
TOTAL ROADWAY						\$1,042,440.50
TOTAL (ROUNDED)						\$1,043,000.00

**EROSION CONTROL CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>EROSION CONTROL</b>					
659	10000	SEEDING AND MULCHING, AS PER PLAN	2,300 S Y.	\$2.00	\$4,600.00
832	15000	STORM WATER POLLUTION PREVENTION PLAN	1 LUMP	\$5,000.00	\$5,000.00
832	30000	EROSION CONTROL	11 EA	\$1,400.00	\$15,400.00
<b>TOTAL EROSION CONTROL</b>					<b>\$25,000.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$25,000.00</b>

**DRAINAGE CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>DRAINAGE</b>					
603	04400	12" CONDUIT, TYPE B, 706.02 OR 707.33	425 FT	\$40.00	\$17,000.00
603	-	12" CONDUIT, TYPE B FOR COMM DRAINAGE CONNECTION	450 FT.	\$40.00	\$18,000.00
603	07400	18" CONDUIT, TYPE B, 706.02 OR 707.33	950 FT.	\$70.00	\$66,500.00
604	00400	CATCH BASIN, NO. 3	11 EA.	\$2,500.00	\$27,500.00
604	-	CATCH BASIN RECONSTRUCTED TO GRADE	18 EA.	\$1,000.00	\$18,000.00
604	31500	STORM MANHOLE, MH-3 (48")	5 EA.	\$3,000.00	\$15,000.00
604	31500	STORM MANHOLE, MH-3 (60")	1 EA.	\$3,000.00	\$3,000.00
604	34500	STORM MANHOLE ADJUSTED TO GRADE	6 EA.	\$450.00	\$2,700.00
605	11110	6" SHALLOW UNDERDRAIN W/ FABRIC WARP	2,086 FT.	\$5.00	\$10,430.00
895	10040	MANUFACTURED WATER QUALITY STRUCTURE, TYPE4	1 EA.	\$35,000.00	\$35,000.00
SPEC.	35000	SPECIAL - MISCELLANEOUS METAL	5,000.00 LBS	\$1.00	\$5,000.00
<b>TOTAL DRAINAGE</b>					<b>\$218,130.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$219,000.00</b>

**SANITARY CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>SANITARY</b>					
604	34501	SANITARY MANHOLE ADJUSTED TO GRADE	12 EA.	\$450.00	\$5,400.00
<b>TOTAL SANITARY</b>					<b>\$5,400.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$6,000.00</b>



**PAVEMENT CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>PAVEMENT</b>					
301	46000	ASPHALT CONCRETE BASE, PG64-22	1,388 C.Y.	\$120.00	\$166,560.00
304	20000	AGGREGATE BASE	925 C.Y.	\$48.00	\$44,400.00
407	10000	TACK COAT	1,478 GAL	\$2.00	\$2,956.00
407	14000	TACK COAT FOR INTERMEDIATE COURSE	740 GAL	\$2.00	\$1,480.00
408	10000	PRIME COAT	5,912 GAL	\$2.00	\$11,824.00
448	46050	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	720 C.Y.	\$130.00	\$93,600.00
448	47020	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	513 C.Y.	\$150.00	\$76,950.00
452	10000	8" NON-REINFORCED CONCRETE PAVEMENT (DRIVES)	630 S.Y.	\$40.00	\$25,200.00
609	26000	CURB , TYPE 6	2250 FT	\$15.00	\$33,750.00
<b>TOTAL PAVEMENT</b>					<b>\$465,645.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$466,000.00</b>

**LIGHTING CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>LIGHTING</b>					
202	-	LIGHT POLES REMOVED FOR STORAGE AS PER PLAN	14 EA.	\$150.00	\$2,100.00
202	-	LIGHT POLE FOUNDATION REMOVED	14 EA.	\$185.00	\$2,590.00
625	00500	CONNECTOR KIT, TYPE II	115 EA.	\$65.00	\$7,475.00
625	00600	CONNECTOR KIT, TYPE III	38 EA.	\$67.00	\$2,546.00
625		LIGHT POLE, DECORATIVE, WITH PHOTO CELL, AS PER PLAN	5 EA.	\$6,000.00	\$30,000.00
625		LIGHT POLE, DECORATIVE, WITHOUT PHOTO CELL, AS PER PLAN	28 EA.	\$6,000.00	\$168,000.00
625	14000	LIGHT POLE FOUNDATION, 30"X 5' DEEP	33 EA.	\$750.00	\$24,750.00
625	17951	BRACKET ARM, 6', AS PER PLAN	6 EA.	\$550.00	\$3,300.00
625	23100	NO. 2 AWG 600 VOLT DISTRIBUTION CABLE	8,600 FT.	\$2.30	\$19,780.00
625	23410	NO. 12 AWG POLE AND BRACKET CABLE	3,180 FT.	\$1.00	\$3,180.00
625	25402	2" CONDUIT, 725.05	3,000 FT.	\$3.50	\$10,500.00
625	25503	CONDUIT, 3", 725.05, AS PER PLAN	685 FT.	\$6.00	\$4,110.00
625	26251	LUMINAIRE, CONVENTIONAL, AS PER PLAN	10 EA.	\$1,250.00	\$12,500.00
625	27551	LUMINAIRE, DECORATIVE, AS PER PLAN (PAIR)	33 EA.	\$1,900.00	\$62,700.00
625	36000	PLASTIC CAUTION TAPE	3,000 FT.	\$0.50	\$1,500.00
625	29000	TRENCH	3,575 FT.	\$4.13	\$14,764.75
625	29601	TRENCH IN PAVED AREA, TYPE B, AS PER PLAN	65 FT.	\$22.00	\$1,430.00
625	31600	PULL BOX, 13" X 24"	18 EA.	\$185.00	\$3,330.00
625	31600	PULL BOX, 17" X 30"	2 EA.	\$360.00	\$720.00
625	32000	GROUND ROD	32 EA.	\$150.00	\$4,800.00
625	34001	POWER SERVICE, AS PER PLAN	3 EA.	\$5,000.00	\$15,000.00
625	540000	MAINTAIN EXISTING LIGHTING	1 L.S.	\$5,000.00	\$5,000.00
<b>TOTAL LIGHTING</b>					<b>\$400,075.75</b>
<b>TOTAL (ROUNDED)</b>					<b>\$401,000.00</b>

**WATER CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
638	01701	8" WATERMAIN, AS PER PLAN	1,100 FT.	\$65.00	\$71,500.00
638	04800	3/4" COPPER SERVICE	450 FT.	\$40.00	\$18,000.00
638	07900	8" GATE VALVE	2 EA.	\$1,200.00	\$2,400.00
638	09710	12" X 8" TAPPING SLEEVE AND VALVE WITH CIRC SS CLAMP	1 EA.	\$2,400.00	\$2,400.00
638	10200	FIRE HYDRANT ASSEMBLY	3 EA.	\$3,000.00	\$9,000.00
638	10480	FIRE HYDRANT REMOVED COMPLETE	2 EA.	\$600.00	\$1,200.00
638	10800	VALVE BOX ADJUSTED TO GRADE	2 EA.	\$195.00	\$390.00
638	10900	SERVICE BOX ADJUSTED TO GRADE	2 EA.	\$150.00	\$300.00
638	11200	CORPORATION STOP, CURB VALVE AND BOX	10 EA.	\$50.00	\$500.00
<b>TOTAL WATER</b>					<b>\$105,690.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$106,000.00</b>

**TRAFFIC CONTROL CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>TRAFFIC CONTROL</b>					
625		INTERSECTION	2 EACH	\$150,000.00	\$300,000.00
625		INTERCONNECT TO MARKET INTERSECTION	1 EACH	\$56,000.00	\$56,000.00
<b>TOTAL TRAFFIC CONTROL</b>					<b>\$356,000.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$356,000.00</b>

**MAINTENANCE OF TRAFFIC CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>MAINTENANCE OF TRAFFIC</b>					
614	11100	TRAFFIC COMPACTED SURFACE, TYPE A OR TYPE B	50 C.Y.	\$35.00	\$1,750.00
410	12000	TRAFFIC COMPACTED SURFACE, TYPE A OR TYPE B	50 C.Y.	\$35.00	\$1,750.00
614	12000	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	85 C.Y.	\$120.00	\$10,200.00
614	21100	WORK ZONE CENTERLINE, CLASS I, 642 PAINT	0.40 MILE	\$1,200.00	\$480.00
614	23200	WORK ZONE LANE LINE, CLASS I, 642 PAINT	1 MILE	\$800.00	\$640.00
614	26200	WORK ZONE STOP LINE, CLASS I, 642 PAINT	100 FT.	\$3.00	\$300.00
614	27200	WORK ZONE CROSSWALK LINE, CLASS I, 642 PAINT	250 FT.	\$1.00	\$250.00
616	10000	WATER	10 M GAL	\$30.00	\$300.00
<b>TOTAL MAINTENANCE OF TRAFFIC</b>					<b>\$13,920.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$14,000.00</b>

**STREETSCAPE CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETSCAPE, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit		Unit Cost	Item Total
STREETSCAPE						
661	40120	LANDSCAPE WATERING	1,000	GAL	\$0.75	\$750.00
661	40120	DECIDUOUS TREE, 3" CALIPER (Cleveland Select Pear)	17	EA	\$600.00	\$10,200.00
661	40120	DECIDUOUS TREE, 3" CALIPER (ARISTOCRAT PEAR)	17	EA	\$600.00	\$10,200.00
661	40120	DECIDUOUS TREE, 3" CALIPER (THORNLESS HONEYLOCUST)	17	EA	\$600.00	\$10,200.00
661	40120	DECIDUOUS TREE, 3" CALIPER (SHUBERT CHERRY)	17	EA	\$600.00	\$10,200.00
SPEC	69098000	TREE GRATE	62	EA	\$1,200.00	\$74,400.00
TOTAL STREETSCAPE						\$115,950.00
TOTAL (ROUNDED)						\$116,000.00

**MISCELLANEOUS CONSTRUCTION COST SUMMARY**  
**11TH STREET REALIGNMENT & STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>MISCELLANEOUS</b>					
103	-	CONTRACT PERFORMANCE BOND	1 LUMP	\$32,000.00	\$32,000.00
108	-	CPM PROGRESS SCHEDULE	1 LUMP	\$6,000.00	\$6,000.00
108	-	PRECONSTRUCTION VIDEO	1 LUMP	\$3,000.00	\$3,000.00
614	11000	MAINTAINING TRAFFIC	1 LUMP	\$87,500.00	\$87,500.00
619	16011	FIELD OFFICE, TYPE A	12 MONTH	\$1,850.00	\$22,200.00
623	10000	CONSTRUCTION LAYOUT STAKES	1 LUMP	\$50,000.00	\$50,000.00
624	10000	MOBILIZATION	1 LUMP	\$155,000.00	\$155,000.00
614	185	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	12 MONTH	\$400.00	\$4,800.00
		LAND REQUIRED FOR NEW R/W	50,000 SQ. FT.	\$2.00	\$100,000.00
<b>TOTAL MISCELLANEOUS</b>					<b>\$460,500.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$461,000.00</b>



**ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION  
COST  
MARKET AVENUE STREETScape, CANTON, OHIO  
JANUARY, 2010**

<u>ITEM</u>	<u>TOTAL COST</u>
Erosion Control	\$10,000.00
Streetscape Pavement	\$210,000.00
Drainage	\$57,000.00
Lighting	\$213,000.00
Utility Adjustments	\$10,000.00
Maintenance of Traffic	\$5,000.00
Streetscape Planting	\$57,000.00
Miscellaneous	\$41,000.00
<b>TOTAL PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST</b>	<b>\$603,000.00</b>

**EROSION CONTROL CONSTRUCTION COST SUMMARY**  
**MARKET AVENUE STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>EROSION CONTROL</b>					
659	300	TOPSOIL	0 C.Y.	\$25.00	\$0.00
659	10000	SEEDING AND MULCHING, AS PER PLAN	1,000 S.Y.	\$2.00	\$2,000.00
832	15000	STORM WATER POLLUTION PREVENTION PLAN	1 LUMP	\$2,000.00	\$2,000.00
832	30000	EROSION CONTROL	4 EA	\$1,400.00	\$5,600.00
<b>TOTAL EROSION CONTROL</b>					<b>\$9,600.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$10,000.00</b>

**STREETSCAPE PAVEMENT CONSTRUCTION COST SUMMARY**  
**MARKET AVENUE STREETSCAPE, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit		Unit Cost	Item Total
STREETSCAPE PAVEMENT						
202	23900	PAVEMENT REMOVED, ASPHALT	200	S.Y.	\$10.00	\$2,000.00
202	30000	WALK REMOVED	8,000	S.F.	\$1.50	\$12,000.00
202	32000	CURB REMOVED	1,800	FT.	\$5.00	\$9,000.00
202	58000	MANHOLE REMOVED	3	EA.	\$600.00	\$1,800.00
202	58100	CATCH BASIN REMOVED	8	EA.	\$275.00	\$2,200.00
202	98100	REMOVAL MISC.: LIGHT POLES	1	EA.	\$500.00	\$500.00
		REMOVAL MISC: POLE FOUNDATION	1	LUMP	\$1,000.00	\$1,000.00
		REMOVAL MISC.: SIGN	1	EA.	\$100.00	\$100.00
203	12000	EXCAVATION, AS PER PLAN	500	C.Y.	\$10.00	\$5,000.00
203	20000	EMBANKMENT	100	C.Y.	\$10.00	\$1,000.00
608		VERTICAL CURB REPLACED	1,800	FT.	\$35.00	\$63,000.00
608	12001	5" CONCRETE WALK, AS PER PLAN	6,800	S.F.	\$4.50	\$30,600.00
608	52011	CURB RAMP, AS PER PLAN	6	EA.	\$500.00	\$3,000.00
SPEC.	60898200	WALKWAY, MISC.: 2 1/4" BRICK WALKWAY PAVERS	6,500	S.F.	\$12.00	\$78,000.00
TOTAL STREETSCAPE PAVEMENT						\$209,200.00
TOTAL (ROUNDED)						\$210,000.00

**DRAINAGE CONSTRUCTION COST SUMMARY**  
**MARKET AVENUE STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>DRAINAGE</b>					
603	04400	12" CONDUIT, TYPE B, 706.02 OR 707.33	200 FT.	\$40.00	\$8,000.00
603	-	12" CONDUIT, TYPE B FOR COMM DRAINAGE CONNECTION	50 FT.	\$40.00	\$2,000.00
603	07400	18" CONDUIT, TYPE B, 706.02 OR 707.33	50 FT.	\$70.00	\$3,500.00
604	00400	CATCH BASIN, NO. 3	11 EA.	\$2,500.00	\$27,500.00
604	-	CATCH BASIN RECONSTRUCTED TO GRADE	6 EA.	\$1,000.00	\$6,000.00
604	31500	STORM MANHOLE, MH-3 (60")	1 EA.	\$3,000.00	\$3,000.00
604	34500	STORM MANHOLE ADJUSTED TO GRADE	6 EA.	\$450.00	\$2,700.00
605	11110	6" SHALLOW UNDERDRAIN W/ FABRIC WARP	500 FT.	\$5.00	\$2,500.00
SPEC.	35000	SPECIAL - MISCELLANEOUS METAL	1,000.00 LBS	\$1.00	\$1,000.00
<b>TOTAL DRAINAGE</b>					<b>\$56,200.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$57,000.00</b>

**LIGHTING CONSTRUCTION COST SUMMARY**  
**MARKET AVENUE STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>LIGHTING</b>					
202	-	LIGHT POLES REMOVED FOR STORAGE AS PER PLAN	8 EA.	\$150.00	\$1,200.00
202	-	LIGHT POLE FOUNDATION REMOVED	8 EA.	\$185.00	\$1,480.00
625	00500	CONNECTOR KIT, TYPE II	52 EA.	\$65.00	\$3,380.00
625	00600	CONNECTOR KIT, TYPE III	16 EA.	\$67.00	\$1,072.00
625		LIGHT POLE, DECORATIVE, WITH PHOTO CELL, AS PER PLAN	15 EA.	\$6,000.00	\$90,000.00
625		LIGHT POLE, DECORATIVE, WITHOUT PHOTO CELL, AS PER PLAN	3 EA.	\$6,000.00	\$18,000.00
625	14000	LIGHT POLE FOUNDATION, 30" X 5' DEEP	18 EA.	\$750.00	\$13,500.00
625	17951	BRACKET ARM, 6', AS PER PLAN	4 EA.	\$550.00	\$2,200.00
625	23100	NO. 2 AWG 600 VOLT DISTRIBUTION CABLE	3,875 FT.	\$2.30	\$8,912.50
625	23410	NO. 12 AWG POLE AND BRACKET CABLE	1,430 FT.	\$1.00	\$1,430.00
625	25402	2" CONDUIT, 725.05	1,350 FT.	\$3.50	\$4,725.00
625	25503	CONDUIT, 3", 725.05, AS PER PLAN	350 FT.	\$6.00	\$2,100.00
625	26251	LUMINAIRE, CONVENTIONAL, AS PER PLAN	2 EA.	\$1,250.00	\$2,500.00
625	27551	LUMINAIRE, DECORATIVE, AS PER PLAN (PAIR)	18 EA.	\$1,900.00	\$34,200.00
625	36000	PLASTIC CAUTION TAPE	1,500 FT.	\$0.50	\$750.00
625	29000	TRENCH	1,600 FT.	\$4.13	\$6,608.00
625	29601	TRENCH IN PAVED AREA, TYPE B, AS PER PLAN	60 FT.	\$22.00	\$1,320.00
625	31600	PULL BOX, 13" X 24"	8 EA.	\$185.00	\$1,480.00
625	31600	PULL BOX, 17" X 30"	2 EA.	\$360.00	\$720.00
625	32000	GROUND ROD	14 EA.	\$150.00	\$2,100.00
625	34001	POWER SERVICE, AS PER PLAN	2 EA.	\$5,000.00	\$10,000.00
625	540000	MAINTAIN EXISTING LIGHTING	1 L.S.	\$5,000.00	\$5,000.00
<b>TOTAL LIGHTING</b>					<b>\$212,677.50</b>
<b>TOTAL (ROUNDED)</b>					<b>\$213,000.00</b>

**UTILITY ADJUSTMENTS COST SUMMARY**  
**MARKET AVENUE STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>UTILITY ADJUSTMENTS</b>					
638	04800	3/4" COPPER SERVICE	200 FT	\$40.00	\$8,000.00
638	10800	VALVE BOX ADJUSTED TO GRADE	2 EA.	\$195.00	\$390.00
638	10900	SERVICE BOX ADJUSTED TO GRADE	2 EA.	\$250.00	\$500.00
638	11200	CORPORATION STOP, CURB VALVE AND BOX	4 EA.	\$200.00	\$800.00
<b>TOTAL UTILITY ADJUSTMENTS</b>					<b>\$9,690.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$10,000.00</b>

**MAINTENANCE OF TRAFFIC CONSTRUCTION COST SUMMARY**  
**MARKET AVENUE STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>MAINTENANCE OF TRAFFIC</b>					
614	11100	LAW ENFORCEMENT OFFICER WITH PATROL CAR	20.00 HOUR	\$60.00	\$1,200.00
410	12000	TRAFFIC COMPACTED SURFACE, TYPE A OR TYPE B	20 C.Y.	\$35.00	\$700.00
614	12000	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	25 C.Y.	\$120.00	\$3,000.00
614	21100	WORK ZONE CENTERLINE, CLASS I, 642 PAINT	0.40 MILE	\$1,200.00	\$480.00
614	23200	WORK ZONE LANE LINE, CLASS I, 642 PAINT	1 MILE	\$800.00	\$400.00
614	26200	WORK ZONE STOP LINE, CLASS I, 642 PAINT	50 FT.	\$3.00	\$150.00
616	10000	WATER	2 M GAL	\$30.00	\$60.00
<b>TOTAL MAINTENANCE OF TRAFFIC</b>					<b>\$4,790.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$5,000.00</b>



**STREETSCAPE CONSTRUCTION COST SUMMARY**  
**MARKET AVENUE STREETSCAPE, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit		Unit Cost	Item Total
STREETSCAPE						
661	40120	LANDSCAPE WATERING	450	GAL	\$0.75	\$337.50
661	40120	DECIDUOUS TREE, 3" CALIPER (Cleveland Select Pear)	8	EA	\$600.00	\$4,800.00
661	40120	DECIDUOUS TREE, 3" CALIPER (ARISTOCRAT PEAR)	8	EA	\$600.00	\$4,800.00
661	40120	DECIDUOUS TREE, 3" CALIPER (THORNLESS HONEYLOCUST)	8	EA	\$600.00	\$4,800.00
661	40120	DECIDUOUS TREE, 3" CALIPER (SHUBERT CHERRY)	7	EA	\$600.00	\$4,200.00
SPEC	69098000	TREE GRATE	31	EA	\$1,200.00	\$37,200.00
TOTAL STREETSCAPE						\$56,137.50
TOTAL (ROUNDED)						\$57,000.00

**MISCELLANEOUS CONSTRUCTION COST SUMMARY**  
**MARKET AVENUE STREETScape, CANTON, OHIO**  
**January, 2010**

Item No.	Item Ext.	Item Description	Quan./Unit	Unit Cost	Item Total
<b>MISCELLANEOUS</b>					
103	-	CONTRACT PERFORMANCE BOND	1 LUMP	\$10,000.00	\$10,000.00
108	-	PRECONSTRUCTION VIDEO	1 LUMP	\$2,000.00	\$2,000.00
623	10000	CONSTRUCTION LAYOUT STAKES	1 LUMP	\$5,000.00	\$5,000.00
624	10000	MOBILIZATION	1 LUMP	\$15,000.00	\$15,000.00
		LAND REQUIRED FOR NEW R/W	4,500 SQ. FT.	\$2.00	\$9,000.00
<b>TOTAL MISCELLANEOUS</b>					<b>\$41,000.00</b>
<b>TOTAL (ROUNDED)</b>					<b>\$41,000.00</b>

ATTACHMENT E

LPA PROJECT SCOPE

## LPA PROJECT SCOPE

### A. PROJECT IDENTIFICATION

### ATTACH MAP OF PROJECT LOCATION

County	STA	Rte	11 <sup>th</sup> Street/Market Avenue		Section	
Project Sponsor/Maintenance Responsibility			City of Canton			
Local Let	X		If yes, Please complete LPA Local-Let Participation Review Form [attached]			
ODOT Let			Project Manager			
Scope Field Review Date			Scope Meeting Date			
Highway Functional Class		Urban Collector				
PID						
Fiscal Year	PE	2010	RW	2011	CO	2012
Proposed Sale Date		4Q 2012				
PDP Classification			Environmental Document			

### B. DESIGN STANDARD TO BE UTILIZED

ODOT L & D Manual Standards and Specifications; City of Canton Supplemental Design Standards

### C. PROJECT DESCRIPTION

**Transportation Issue to Be Corrected:** The proposed project will provide streetscape enhancements along 11<sup>th</sup> Street between Market Avenue and the US-30 entrance/exit ramps and along Market Street between 11<sup>th</sup> Street and the Norfolk and Southern Railroad. In addition, the proposed project will provide geometric improvements to the 11<sup>th</sup> Street horizontal alignment between Market Avenue and Cherry Street.

#### Prior Studies/Plans [identify]

<b>Estimated Project Length</b>	[begin pavement to end pavement, including bridge]	1050 linear feet on 11 <sup>th</sup> Street 900 linear feet on Market Street
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<b>Work Length</b>	[including project length and approach work]	1950 linear feet
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<b>Limits:</b>	begin	Market Avenue/11 <sup>th</sup> Street	end	westbound on/off ramps Rt. 30/Railroad Tracks
<b>alignment</b>	existing		relocated	X
<b>profile</b>	existing		new	X

**logical termini [with explanation]:** Relocation begins just after concrete traffic island at the intersection of Market Avenue and 11<sup>th</sup> Street. Relocation ends 475 feet west of Cherry Avenue. Streetscape continues along existing alignment to the westbound on/off ramps of Rt. 30 and along Market Street.

**D. TYPICAL SECTIONS *EXISTING*****Primary Route:** 11<sup>th</sup> Street

Width

pavement: 40 feet graded shoulder: treated shoulder: RW: 60 feet

Bridge: face to face of rails toe to toe of parapets

curbs yes ☒ no ☐ commentcurb ramps yes ☐ no ☒ commentsidewalks yes ☒ no ☐ commentguardrail yes ☐ no ☒ type**TYPICAL SECTIONS *PROPOSED***

Route

Width

pavement: 40 feet graded shoulder: treated shoulder: RW: 70'

Bridge: face to face of rails toe to toe of parapets

curbs yes ☒ no ☐ commentcurb ramps yes ☒ no ☐ commentsidewalks yes ☒ no ☐ commentguardrail yes ☐ no ☒ type**SUPPLEMENTAL INFORMATION**

ADT 5400

Design ADT

DHV

Certified Traffic

T24

Design Speed 35 MPH

Legal Speed

35 MPH

Comments

**TYPICAL SECTIONS *EXISTING*****Secondary Route:** Market Street

Width

pavement: 40 feet graded shoulder: treated shoulder: RW: 60'

Bridge: face to face of rails toe to toe of parapets

curbs yes ☒ no ☐ commentcurb ramps yes ☐ no ☒ commentsidewalks yes ☒ no ☐ commentguardrail yes ☐ no ☒ type**TYPICAL SECTIONS *PROPOSED***

Route

Width

pavement: 40 feet graded shoulder: treated shoulder: RW: 60'

Bridge: face to face of rails toe to toe of parapets

curbs yes ☒ no ☐ commentcurb ramps yes ☒ no ☐ commentsidewalks yes ☒ no ☐ commentguardrail yes ☐ no ☐ type**SUPPLEMENTAL INFORMATION**

ADT

Design ADT

DHV

Certified Traffic

T24

Design Speed

Legal Speed

Comments

### E. RIGHT OF WAY

<b>Right of Way Plan</b>	<b>yes</b>	<b>X</b>	<b>no</b>
<b>Approximate number of parcels known relocations</b>	11 parcels		
<b>Railroad involvement</b>	<b>yes</b>		<b>no</b> X
<b>Railroad name</b>	<b>yes</b>	<b>X</b>	<b>no</b>
<b>Encroachments</b>	Wheeling & Lake Erie Railroad		
<b>Airway Highway Clearance</b>	None Known		
<b>Remarks</b>	<b>yes</b>		<b>no</b> X
<b>Airport Name</b>	Nearest airport is 7.70 miles away		
<b>Comments</b>	Akron-Canton Regional Airport		

**Note:** Provide a footprint of proposed and existing right of way limits as soon as a available to District Env. Coordinator and District Real Estate Administrator. **Caution:** Environmental needs to be clear prior to the beginning of right of way acquisition. A local utilizing their own monies, assumes many risks by proceeding with acquisition prior to environmental being cleared. These risks include purchasing r/w that may never be used for the project and purchasing a site that contains the need for hazardous waste cleanup.

## F. UTILITIES

## Aerial

Phone	yes	X	no	name of company	AT&T Ohio
Cablevision	yes	X	no	name of company	Time Warner Cable
Power	yes	X	no	name of company	AEP Ohio Power

## Buried

Phone	yes	<input type="checkbox"/>	no	<input type="checkbox"/>	name of company	<input type="text"/>
Cablevision	yes	<input type="checkbox"/>	no	<input type="checkbox"/>	name of company	<input type="text"/>
Power	yes	<input type="checkbox"/>	no	<input type="checkbox"/>	name of company	<input type="text"/>
Gas	yes	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>	name of company	Dominion East Ohio
pipelines	yes	<input type="checkbox"/>	no	<input type="checkbox"/>	name of company	<input type="text"/>
water	yes	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>	private	<input type="text"/> public City of Canton
sanitary sewer	yes	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>	private	<input type="text"/> public City of Canton
storm sewer	yes	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>	private	<input type="text"/> public City of Canton
other	yes	<input type="checkbox"/>	no	<input type="checkbox"/>	private	<input type="text"/> public
comments	<input type="text"/>					

## G. STRUCTURAL REQUIREMENTS

### EXISTING STRUCTURE INFORMATION

N/A

Structure Type \_\_\_\_\_ N/A

Sufficiency Rating \_\_\_\_\_ General Appraisal \_\_\_\_\_ Bridge Number \_\_\_\_\_

Structure File No. \_\_\_\_\_ crossing \_\_\_\_\_

Bridge Length \_\_\_\_\_

Number of Spans \_\_\_\_\_

Eligible for National Register      yes \_\_\_\_\_ no \_\_\_\_\_

### PROPOSED STRUCTURE INFORMATION

New Structure      yes \_\_\_\_\_ no \_\_\_\_\_

Rehabilitate Existing Bridge by: \_\_\_\_\_

Structure Width \_\_\_\_\_ Structure Type \_\_\_\_\_

Number of Spans \_\_\_\_\_

Beam Type      Concrete Box \_\_\_\_\_ Steel \_\_\_\_\_

Other Design Considerations/Explanation of change in Line Grade \_\_\_\_\_

Guardrail Type \_\_\_\_\_

## H. DESIGN EXCEPTION[S] REQUIRED

yes \_\_\_\_\_ no ☒ explain \_\_\_\_\_

## I. TRAFFIC CONTROL

Signing      yes ☒ no \_\_\_\_\_ Remarks \_\_\_\_\_

Striping      yes ☒ no \_\_\_\_\_ Remarks \_\_\_\_\_

Lighting      yes ☒ no \_\_\_\_\_ Remarks \_\_\_\_\_

Signals      yes ☒ no \_\_\_\_\_ Remarks \_\_\_\_\_

RPMs      yes \_\_\_\_\_ no ☒ Remarks \_\_\_\_\_

## J. MAINTENANCE OF TRAFFIC

Detour \_\_\_\_\_ No \_\_\_\_\_ Part Width \_\_\_\_\_ Yes \_\_\_\_\_

Remarks \_\_\_\_\_

## K. DRIVEWAYS

yes ☒ no \_\_\_\_\_ Remarks \_\_\_\_\_

**L. PROJECT FUNDING**

Project Cost Estimate \$4,557,400

Quantity Splits needed in plans to differentiate funding participation? yes \_\_\_\_\_ no X

comments \_\_\_\_\_

Coordination with concurrent project required yes \_\_\_\_\_ no X

comments \_\_\_\_\_

**COST ESTIMATES**

Project Phases	Fiscal Year	Federal Funds			State Funds			Local Funds	
		source	amount	%	source	amount	%	amount	%
env									
final design									
<b>PE [TOTAL]</b>			\$296,560					\$74,140	
utilities									
<b>RW [TOTAL]</b>			\$87,200					\$21,800	
co contract			\$2,965,600					\$741,400	
co inspect/engineer			\$296,560					\$74,140	
<b>CONSTRUCTION[ TOTAL]</b>			\$3,262,160					\$815,540	
<b>TOTAL</b>			\$3,645,920					\$911,480	



**PE FUND EVENT**

SAC	Amount	Fed/State Rate	Program Max	PE Phase total	FY

**RW FUND EVENT**

SAC	Amount	Fed/State Rate	Program Max	RW Phase total	FY

**CO FUND EVENT 1**

SAC	Amount	Fed/State Rate	Program Max	CO Fund event total	FY

construction contract	\$1				
fed cc	\$1				
local cc	\$0				
construction engineering	\$0				
fed ce	\$0				
local ce	\$0				

**CO FUND EVENT 2**

SAC	Amount	Fed/State Rate	Program Max	CO Fund Event total	FY
LNTP					

construction contract	\$1				
fed cc	\$1				
local cc	\$0				
construction engineering	\$0				
fed ce	\$0				
local ce	\$0				

**CO FUND EVENT 3**

SAC	Amount	Fed/State Rate	Program Max	CO Fund Event total	FY

construction contract	\$1				
fed cc	\$1				
local cc	\$0				
construction engineering	\$0				
fed ce	\$0				
local ce	\$0				

## **M. Environmental**

### **Summary of Common Environmental Studies**

**Note:** all required environmental studies must be performed by pre-qualified consultants and the number of copies required is subject to change based on project-specific coordination and schedule requirements.

#### **Cultural Resources**

- ☒ Photologs (3 copies)
- ☐ Phase I Short Report (3 copies)
- ☐ Phase I Cultural Resources Survey Report (3 copies)
- ☐ Phase I History/Architecture Survey Report (3 copies)
- ☐ Phase I Archaeology Survey Report (3 copies)
- ☐ Phase II Cultural Resources Survey Report (3 copies)
- ☐ Phase II History/Architecture Survey Report (3 copies)
- ☐ Phase II Archaeology Survey Report (3 copies)
- ☐ Phase III Archaeology Data Recovery (4 copies)
- ☐ Addendum reports/submissions (3-4 copies)
- ☐ Documentation for Consultation/MOA (4-5 copies)
- ☐ HABS/HAER/6(f); Recreational/Cultural Documentation (4 copies)

#### **Section 4(f)**

- ☐ Determination of Non-Applicability of Section 4(f) (Draft: 2 copies, Final: 3 copies)
- ☐ Determination of Applicability of Programmatic Section 4(f) (Draft: 2 copies, Final: 3 copies)
- ☐ Individual Section 4(f) Evaluation (Draft: 3 copies, Final: 10 copies)
- ☐ Section 6(f) Documentation (Draft: 3 copies, Final: 4-5 copies)

#### **Ecological Resources**

- ☒ Ecological MOA (4 copies for two agency coordination or 6 copies for Four Agency Coordination)
- ☐ Wetland Delineation Report (4 copies for two agency coordination or 6 copies for Four Agency Coordination)
- ☐ Level 1 Ecological Survey Reports (6 copies for Four Agency Coord. and 7 copies for Five Agency Coord and high impact projects).
- ☐ Level 2 Ecological Survey Reports (6 copies for Four Agency Coord and 7 copies for Five Agency Coord and high impact projects).
- ☐ \*\*Add 2 additional copies for involvement with Scenic Rivers

#### **Sole Source Aquifer**

- ☐ Sole Source Aquifer Coordination - (3 copies)

#### **Farmland Policy Protection Act (FPPA)**

- ☒ FPPA Project Screening Sheets (1 copy, may be submitted electronically)
- ☐ Farmland Conversion Impact Rating-Form (USDA Form AD-1006) (4 copies)

#### **Waterway Permits**

- ☐ Conceptual Stream/Wetland Mitigation reports (Draft: 2 copies, Final: 6 to 7 copies)
- ☐ Section 404/401 Applications (Draft: 2 copies, Final: 10 copies)
- ☐ USACE Pre-Construction Notification (PCN) applications (Draft: 2 copies, Final: 5 copies)
- ☐ Ohio EPA Isolated Wetland Permit Pre-Activity Notification (PAN) (Draft: 2 copies, Final: 4 copies)
- ☐ Coastguard Section 9 Application (Draft: 2 copies, Final: 3-4 copies)
- ☐ Flood Plain Permit Application (Draft: 2 copies, Final: 3-4 copies)

#### **Environmental Site Assessment**

- ☒ Environmental Site Assessment Screening Report (2 copies)
- ☒ Phase I Environmental Site Assessment Report (2 copies)
- ☐ Phase II Environmental Site Assessment Report (2 copies)

#### **Noise**

- ☐ Traffic Noise Analysis Report (Draft: 2 copies, Final: 2 copies)
- ☐ Ambient Noise Level Report (Draft: 2 copies, Final: 2 copies)
- ☐ Noise Barrier Public Involvement Summary (Draft: 2 copies, Final: 2-3 copies)

#### **Public Involvement Activities**

- ☐ Public Involvement Plan (Draft: 2 copies, Final: 2-3 copies)
- ☐ Along w/ the tasks for a public involvement activities that are included in the project scope
- ☐

#### **Categorical Exclusion (CE) Environmental Document**

- ☐ CE Level 1 Environmental Document (Draft: 1 copy, Final: 2 copies)
- ☒ CE Level 2 Environmental Document (Draft: 1 copy, Final: 2 or 3 copies)
- ☐ CE Level 3 (Draft: 2 copies, Final: 4 copies)
- ☐ CE Level 4 (Draft: 2 copies, Final: 5 copies)
- ☐ CE Reevaluation (Draft: 1-2 copies, Final: 3-5 copies)

**Scope of the Proposed Action/Involvement with Resources:** These are actions/items the District Environmental Staff deems necessary to address as part of the LPA project environmental documentation . This form is not all inclusive, and more items may be required upon initiation of agency coordination and field studies

**N. ROLES AND RESPONSIBILITIES**

Construction Plan Development	Consultant
Proposal/Specification Development	Consultant
LPA Agreement	ODOT
Form and Preliminary Legislation	City of Canton
Advertising and Award of Contract	City of Canton
Construction Inspection	Consultant/City
RW Plan Development	Consultant
RW Acquisition /Appraisals	Consultant
Utility Relocation	Consultant

**O. FIELD REVIEW**

NAME	AGENCY	PHONE	E-mail

**P. COMMITMENT DATES**

Traditional \_\_\_\_\_ Local Let \_\_\_\_\_ X \_\_\_\_\_ Reservoir \_\_\_\_\_

ACTIVITY	START DATE	FINISH DATE
Authorization to Proceed	July 1, 2010	
Stage 1 Review	October 1, 2010	November 30, 2010
Stage 2 Review	March 1, 2011	April 30, 2011
Stage 3 Review	August 1, 2011	September 30, 2011
RW Plans Approved/Not Required	March 1, 2011	April 30, 2011
Bid document tracings to District	December 1, 2011	January 30, 2012
RW and Utility Clearance	May 1, 2011	November 30, 2011
Environmental Clearance	September 1, 2010	May 1, 2011
Plan Package to CO	February 1, 2012	March 1, 2012
Award Date	June 1, 2012	July 1, 2012

**Other due dates of interest:**

- County to submit plans, proposal, estimate [PS&E] to the District
- County certifies R/W and utility clearance to the District
- County submits bid results to District

Schedule Explanation: **Authorization to Proceed** Start Date is the date that the District submits the programming package to Central Office. Finish Date for said activity is when a state job number has been established. Start Date for **Environmental Clearance** is normally the same as the date the project has been programmed. Start Date for **Stage 2 Review** is the date of submission to the District of the preliminary R/W plans. Finish date for said activity is when comments are returned to the LPA. Start Date for **R/W Plan Approved** is when the District has received final R/W plans and associated documents. Finish Date for said activity is when the District has approved said plans and associated documents. Start Date for **R/W and Utility Clearance** is the date that the LPA is authorized to begin acquisition. Finish Date for said activity is when the District certifies clearance to FHWA. The LPA should verify R.W and Utility Clearance to the District one month before the R/W and Utility Clearance Finish Date. Start Date for **Plan Package to C.O.** is the date that the PS&E package leaves the District and the Finish Date is the day it is logged in at Central Office. One should allow forty-five days from Plan Package to C.O for PS & E approval and project advertising before the Sale Date. Advertising needs to be three weeks minimum and cannot start until PS&E approval is obtained. Start Date for the **Award Date** is the Sale Date of the project. And the Finish Date for the Award Date is the date the project is awarded. Summary of bid tabs and the identity of the awarded contractor shall be submitted to ODOT no later than one week after the award.

**Project Schedule Approval:**

Environmental Coordinator \_\_\_\_\_

Program Manager \_\_\_\_\_

Production Administrator \_\_\_\_\_

Real Estate Administrator \_\_\_\_\_

Project Manager \_\_\_\_\_

Planning Administrator \_\_\_\_\_

LPA Coordinator \_\_\_\_\_

\*\*\*\*\*

# LPA Local-Iet Participation Requirement Review Form

Local Public Agency (LPA)

Project Name

Upon receipt of an LPA's initial project programming package, the District Office shall thoroughly review and evaluate the content with regard to the following requirements for Local-Iet Program participation. Failure by the LPA to demonstrate a satisfactory status for any of these prerequisites shall result in the District denying the LPA the privilege of administering the delivery of a Local-Iet project.

1. The LPA agrees to adhere to the Ohio Department of Transportation (ODOT) Locally Administered Transportation Projects Manual of Procedures.
2. The LPA's Person in Responsible Charge accepts the following responsibilities:
  - a. Ensure that all applicable Federal and State regulations are followed on the project and have the responsibility, authority and resources to manage it effectively.
  - b. Serve as agency contact for issues or inquiries concerning the project.
  - c. Be familiar with project progress, involved in decisions that require change orders, and visit the project on a frequency that is commensurate with the magnitude and complexity of the project.

Person in Responsible Charge:

--

Current Roles and Responsibilities within LPA:

--

Statement of Qualifications:

--

3. Identify the LPA Designee to serve as the Construction Project Engineer (CPE), or if the CPE will be provided through contracted consultant services:

--

4. The LPA must have previously delivered and maintained successful capital improvement projects of a similar size, nature and complexity.

Project Name:	ODOT PID:	Letting Agency	Amount::	Funding Sources:
	If Applicable		\$	
Scope:				
Issues / Comments:				

Project Name:	ODOT PID:	Letting Agency	Amount::	Funding Sources:
	If Applicable		\$	
Scope:				
Issues / Comments:				

Project Name:	ODOT PID:	Letting Agency	Amount::	Funding Sources:	Complete Date:
	If Applicable		\$		
Scope:					

Issues / Comments:
--------------------

5. Indicate for what project phases the LPA expects to contract consultant services. If function is performed by LPA staff, indicate the LPA Designee(s) responsible:

Environmental:	
Design:	
PS&E (Including Bid Document)	
Right-of-Way	
Construction Administration & Inspection	
Sampling and Testing	

6. The LPA has established and documented practices for each of the following project administration responsibilities. The LPA must indicate LPA support staff responsible for the management of these processes. **Written processes\* should be attached separately to this form**, or documented in the space provided (field will expand).

- a. \*Consultant Services Evaluation and Selection:

LPA Designee(s):
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Process Description:
----------------------

- b. Consultant Services Management:

LPA Designee(s):
------------------

Process Description:
----------------------

- c. \*Change Order Process

LPA Designee(s):
------------------

Process Description:
----------------------

- d. \*Dispute Resolution / Claims Management Process

LPA Designee(s):
------------------

Process Description:
----------------------

- e. Finance, Accounting and Record-Keeping:

LPA Designee(s):
------------------

Process Description:
----------------------

- f. Disadvantaged Business Enterprise (DBE) compliance:

LPA Designee(s):
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Process Description:
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g. Davis-Bacon and/or State Prevailing Wages Compliance:

LPA Designee(s):

Process Description:

h. Maintenance of Project Files:

LPA Designee(s):

Process Description:

7. The LPA must not be under fiscal watch or fiscal emergency for its most recently completed fiscal year. In the event the entity is emerging from fiscal watch or fiscal emergency, the entity must be able to clearly demonstrate that it has adequate financial resources to fund matching and/or cost overruns on the project. The LPA must submit a copy of its most recently completed audit and management letter. Both documents must support the entity's ability to fiscally handle and administer the project. There should be no material or significant issues related to prior or current ODOT projects, by the entity as a whole, which would provide doubt regarding the LPA's ability to administer an LPA project
8. The LPA has established authority in place for executing the project, and must be willing to provide a copy of approved legislation that provides the mayor, county engineer or other designated local official with clear authority to enter into a project agreement with ODOT.

Signature:

\_\_\_\_\_  
(LPA Person in Responsible Charge)

\_\_\_\_\_  
Date

(Attach to project programming package; include copies of all materials used in completing this evaluation.)

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**ODOT District Use Only:**

The District LPA review team has evaluated the completed statement of qualifications provided by the requesting LPA and recommends the following:

	Approval of full administration of all project work types by the LPA, subject to satisfactory performance and no change in stated qualifications.  Comment:
	Approval of limited LPA administration on a project-by-project basis. Primary Work Type(s) approved:  Comment::
	Approval / Denial pending the provision of supplemental information. The LPA qualification package was lacking the following information necessary to make a determination:  Comment:
	Denial of LPA administration request.  Comment:

--	--

District Review Team:

Name / Title:
Name / Title:
Name / Title:
Name / Title:



ATTACHMENT F

PRELIMINARY STREETSCAPE

PRELIMINARY ROAD REALIGNMENT